

Title (en)  
FALLING FILM EVAPORATOR

Title (de)  
FALLFILMVERDAMPFER

Title (fr)  
ÉVAPORATEUR À FILM TOMBANT

Publication  
**EP 3094932 B1 20200909 (EN)**

Application  
**EP 15702058 A 20150114**

Priority  
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• US 2015011298 W 20150114

Abstract (en)  
[origin: WO2015108902A1] A heating, ventilation and air conditioning (HVAC) system includes a condenser (18) flowing a flow of refrigerant therethrough, and a falling film evaporator (12) in flow communication with the condenser. The falling film evaporator includes a plurality of evaporator tubes (38) through which a volume of thermal energy transfer medium is flowed and a distributor (42) to distribute a flow of liquid refrigerant over the plurality of evaporator tubes. The distributor includes a distributor box (46) and a distribution sheet (48) positioned at a bottom surface of the distributor box having a plurality of ports (56) therein to distribute the flow of liquid refrigerant downwardly over the plurality of evaporator tubes. A plurality of baffles (56) is positioned at the distribution sheet to divide the distributor box into a plurality of compartments to ensure a homogeneous flow of the liquid refrigerant is delivered through the plurality of ports.

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